

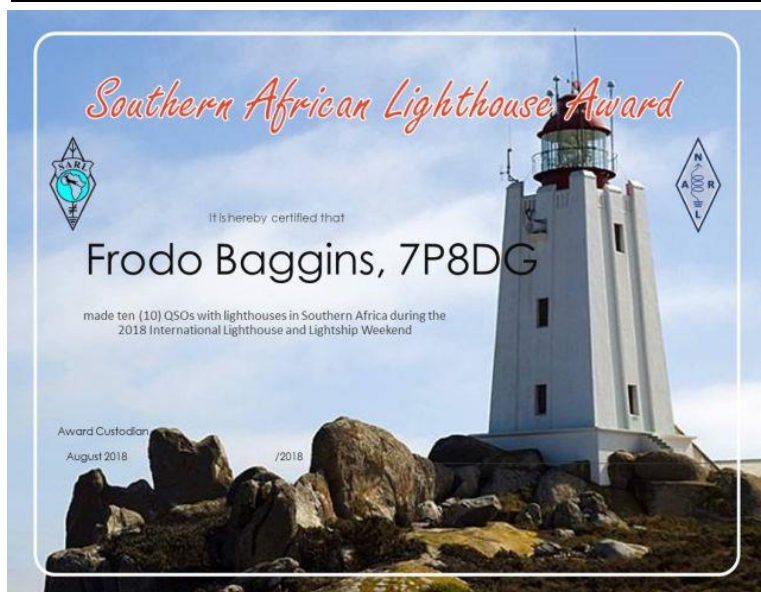


HF Happenings 809

Volume 16, Issue 19, the week of 20 August 2018

You can now download your copy of HF Happenings from www.sarl.org.za/hf_happenings.asp

Southern African Fauna and Flora <https://zsfaunaandflora.wordpress.com/>



SARL HF CW Contest

The third and last of the SARL HF Contests, the HF CW Contest, is on the air between 14:00 and 17:00 UTC on Sunday 26 August 2018 with activity between 14 000 and 14 099 kHz with FT8 on 14 074 kHz; 7 040 and 7 060 kHz

The exchange is an RST report and a consecutive serial number starting at 001. You score two (2) points per QSO with a station in Area 1 to 8 and one (1) point per QSO with a station in Area 9 - the aim of the contest states "for participants to contact as many amateurs in Southern Africa as possible on the 20, 40 and 80 m amateur bands."

You score two (2) points for each area worked on each band, there are only 9 areas and you score two (2) for each station worked on all three bands.

Submit your log in ADIF (with a summary sheet), Cabrillo (with a summary sheet) or MS Excel format (the summary sheet is part of the Excel spreadsheet) and labelled "my call sign HF CW" by 3 September 2018 by e-mail to zs4bfn@mweb.co.za. Refer to GR 3.6 and 5.1 to 5.6 for detail about logs and summary sheets.

The Silent Keys Memorial CW Trophy. Awarded to the amateur who achieves the highest score during the annual South African Radio League HF CW Contest.

Awarded to the amateur who achieves the highest score on any one band, during the annual South African Radio League HF Digital Contest.

Results of the 2018 YL Sprint

The Contest Committee received 8 logs for the YL Sprint held on National Women's Day 9 August 2018. A note to the men – this is a YL Sprint and the aim is to work as many lady radio amateurs as possible – not men!

August

- 22 - Eid-al-Adha
- 23 – closing date for articles for the September Radio ZS
- 24 to 25 - Hantam Vleisfees, Calvinia
- 24 to 26 – Magalies Rocks the Cradle Festival, Magaliesburg
- 25 – Cape Town ARC Meeting; Pretoria ARC AGM and Flea Market
- 26 – SARL HF CW Contest
- 27 – closing date for HF Digital logs

September

- 1 – Waterblommetjie Festival, Paarl; West Rand ARC Flea Market
- 1 and 2 - Region 1 SSB Field Day and RSGB SSB Field Day; FaBULLous Bot River Spring Festival
- 3 - closing date for HF CW logs
- 8 – International Literacy Day
- 8 and 9 – SARL National Field Day
- 9 to 11 – Rosh Hashanah
- 14 to 16 – the Darling Flower Show
- 15 - East Rand Branch AGM
- 15 and 16 - All Africa contest; SARL VHF/UHF Digital contest
- 16 - October RAE registration closes
- 17 – closing date for NFD logs
- 18 and 19 - Yom Kippur
- 18 September 1918 - The Battle of Square Hill
- 21 to 22 Karoo to Coast cycle race, Langkloof
- 22 – Cape Town ARC meeting
- 22 to 24 – Vetplantfees, Calitzdorp
- 22 to 30 – the Magoebaskloof Spring Festival, Haenertsburg
- 23 – Spring Equinox; Gabrielskloof Fire Food, Overberg
- 24 – National Heritage Day and National Braai day; Closing date VHF/UHF Digital logs; Closing date for October Radio ZS
- 27 - World Maritime Day and World Tourism Day
- 28 – Provincial schools close
- 28 to 30 – SA National Sheepdog Championships, Caledon
- 29 and 30 - CQ WW RTTY contest; the Strawberry Festival, George

1st Alta Gaybba, ZR3PA and Sonet de Wet, ZS3SW – 113 points each
3rd Jocelyn Hallendorff, ZS6JKL – 97 points
4th Karin Andrew, ZS6MMA – 96 points
5th Woody Collet, ZS3WL – 72 points
6th Amorita de Wit, ZR5ADW – 48 points
7th Johan van Zijl, ZS4DZ – 22 points
8th Roy Walsh, ZS3RW – 17 points

ILLW wrap-up

The International Lighthouse Lightship Weekend was, according to reports, another successful event with 440 stations which entered for the event from 49 countries. This was the 21st year the event has been held and 25 years since the Northern Lights Award came on the air in 1993. The ILLW evolved from that Scottish Award concept to become one of the most popular events in Amateur Radio. Band conditions were improved on last year but were still a long way from those of years ago.

One of the main comments was the apparent lack of courtesy on the air by some of the larger stations running a lot more power than most of those at lighthouses. **We continually point out that the ILLW is not a contest and there is no reason or benefit in accumulating a lot of lighthouse contacts. The objective is to talk to other stations and spread the word about lighthouses and their situation as an endangered species.** Please remember that stations at lighthouses are running less than 100 watts and with temporary antennas, usually wire.

Another suggestion is that entrants not leave it until the last few days to enter as most stations would like to update their list before they leave for the lighthouse and internet connections are not always available at remote locations.

The entrants list for 2019 already has 71 lighthouses listed for the weekend of 17 and 18 of August 2019 – I see ZS5D is on the 2019 list!

For 2018, thanks to V51WW – Swakopmund; V51NAM – Pelican Point, Walvis Bay; ZS3CVB – Port Nolloth; ZS3VDK – North Head and ZS3ZU – South Head, Saldanha Bay; ZS9V – Robben Island; ZS1CT – Green Point, Cape Town; ZS1FRC – Slangkop; ZS1EZ – Cape Point; ZS1CRG – Cape Hangklip; ZS1OAR – Danger Point; ZS70BAK – Agulhas; ZS2PE – Donkin Reserve; ZS2BRC – Hood Point; ZS5HAM – Green Point, Clansthal and ZS5D – Cooper. 38 SA Lighthouse Award Certificates have been issued.

YOTA 2018 Twitter

Many of the YOTA (Youngster on The Air) 2018 activities were tweeted about. You can read stories and see pictures on the YOTA Twitter stream (no Twitter account required) <https://twitter.com/hamyota>.

The QSX SDR Transceiver kit

Hans, G0UPL, has come out with a new transceiver in support of this year's YOTA activities www.ham-yota.com/category/yota-2018/ - the QSX SDR Transceiver kit <https://grp-labs.com/gsx.html>. He was interviewed by Faith Hannah, AE4FH describing this new transceiver initially available for 40 meters and only to YOTA attendees www.youtube.com/watch?v=hL6CWaY438Y. Ten watts, multi-mode capabilities, no PC required for CW and SSB. It's self-contained, but also can connect to computers via USB to support digital modes (yes, FT8 too) with built-in sound card capability, and be computer controllable. Hans has made its audio interfaces compatible with standard cellular phone earbud plugs for microphone and speaker audio - something every teen will likely have. There's also an RJ-45 jack for radio-style microphone input. Attendees were able to start building the kit, however it's still under development by QRP Labs <http://grp-labs.com/>. Hans' CW transceiver kit from last year, the QCX <http://grp-labs.com/qcx.html>, is very popular, with over 5 500 kits shipped.

FT8Call

FT8Call is a new program that builds upon WSJT-X, using FT8 signalling to support free-form chat-style contacts <http://qrznow.com/a-new-ft8-with-rag-chew-abilities-ft8call/>. Both ends of the contact must use the software to successfully make contacts, and different frequencies are used than those for WSJT-X. FT8Call is a derivative work of the open source WSJT-X software.

The S-BOX

Bob, N6TV, has a new version of his S-BOX, which he has called the "Swiss Army Knife of interface boxes." The original S-BOX "eliminates y-cabling and makes it particularly easy to connect any modern transceiver to a computer and an Elecraft/SPE/ACOM amplifier and a SteppIR controller/KRC2/ShackMaster SM-8, all at the same time, with automatic band changes for all connected devices, and with no serial port conflicts." The new S-BOX-USB "...comes with a built-in FTDI USB-to-Serial adapter" which can further simplify many configurations. See <https://bit.ly/S-BOX> for photos and wiring examples.

Win-Test Contest Logger

The Win-Test Contest Logger www.win-test.com/ is available as a free download for DXpedition-style use <http://download.win-test.com/v4/freeware/>. The DXpedition version of Win-Test is full function, with no timeouts, and not a demo. However, this version doesn't support any contests, just DXpedition mode, which means that the only QSO information that can be entered is RST and an optional "Notes" field. The paid version supports all contests, and also includes DXpedition mode. By trying out the DXpedition version, operators can decide whether they'd like to purchase the full version. There is also a separate "demo" version of Win-Test that supports all contests plus DXpedition mode, but times out randomly after a few QSOs www.win-test.com/rubrique.php3?id_rubrique=1780. It is intended for verification-of-operation only, for example that rig control and CW sending and logging and scoring all work, without requiring any fee or password. (Bob, N6TV)

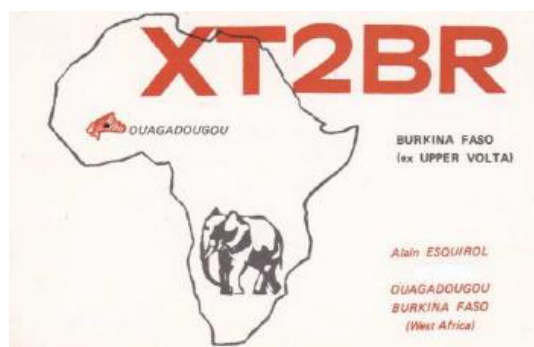
African DX

Contacts with stations on the African continent count towards the SARL's All Africa Award (www.sarl.org.za/public/awards/awards.asp)

Ceuta and Melilla, EF9. Haru, JA1XGI, will be active as EA9/W1XGI from Melilla between 16 and 22 October. Activity will be holiday style on various HF bands (probably 40 to 10 m) using mainly CW and FT8. QSL via his home call sign, direct, by the Bureau, ClubLog's OQRS or LoTW. For more details and updates, see <http://island.geocities.jp/ea9melilla>



Burkina Faso, XT. Al, F8FUA, will once again reactivate his old call sign, XT2BR, used back between November 1983 and June 1986. Look for him to be active from Ouagadougou between 21 and 29 August. He will use an Elecraft K3 with 100 watts into a hexbeam and dipoles, operating on CW, SSB, RTTY and FT8 (DXpedition mode) if possible. He states, "Please remember, I have no sponsor, no QSL Manager etc... I am alone, so I will not be active 24 hours a day." Log will be updated when possible depending on his Internet access. QSL direct (with SAE and 2 USDs) or via the REF QSL Bureau. After his operation, Al will upload his old and new logs to LoTW. Al does mention, "Unfortunately, most of the log (his old log) has been lost except a small part of around 4 300 QSOs."



African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz



4U1UN

"We're one step closer to being back on the air", James Sarte, K2QI (President of the United Nations ARC, <http://www.4u1un.net>) posted to Facebook on 16 August. "As some may know, Dmitri Zhikharev RA9USU along with Adrian Ciuperca KO8SCA have been working with me behind the scenes to get the station operational again. Through the generous donations of Dima and his associates (notably Ed Kritsky NT2X), we were able to

get a rack mounted K3, Acom 2000 linear amplifier, and associated network-enabled control hardware. We were also granted another K3 to act as a remote head from SK Tony N2UN via his widow and delivered to us by Andrew Bodony K2LE. Finally, Adrian has been doing a lot of behind-the-scenes networking and legwork with his counterparts to help get things done from within the United Nations.

Yesterday represents an additional milestone for the club as Adrian (who did most of the work) and I, finally erected a brand new SteppIR BigIR vertical antenna on the Secretariat's roof. All that remains is to connect and lay the ground radials, fine-tune the rack mounted devices, and setup and configure the remote K3. Once done and after almost a decade off-air, we can finally call CQ 20 de 4U1UN".

"With regards to remote", K2QI explained in late July to DX World (see <https://dx-world.net/whats-the-issue-with-4u1un/>), "the operators will still be inside the UN proper. Just now, everything will be done by IP where the control heads are located on the first floor and the transceiver on the 41st floor to minimize coax length to the antennas. There will be no true remote operations of the station from outside the compound as dictated by current UN network security protocols".

ARRL Contests Portal

The ARRL Contest Branch has announced a new ARRL Contests Portal <http://contests.arrl.org/>. ARRL Contest Branch Manager Bart Jahnke, W9JJ, calls it "a one-stop shop for all of your ARRL contest interests, offering access to everything from the starting bell of a contest to your post-event hard-fought certificate of accomplishment." Use the navigation tabs on the left to locate information about specific contests. Use the tabs at the top to submit logs, manage club eligibility lists, download certificates, and view other information for all contests. The new portal is still under construction. Information on specific contests and other contest-related content is being added every week.

Word to the Wise

Interlock – a device, usually hardware, that enforces contest rules regarding restrictions about how many transmitters may be on the air at a given time. Some contests permit only one transmitted signal at a time, while others may allow multiple transmitted signals, but only one per band, for particular entry classes. In the ARRL Phone Sweepstakes, some multi-operator stations use transmitter interlocks to ensure that only one signal is transmitted at a time.

Operating Tip

Have a Contest Checklist and Use It - pilots use them. Surgeons use them. You should too. A Contest Checklist can improve your contest scores by providing a consistent process to preparing for competition. N3FJP publishes a checklist that is helpful no matter what contesting program you are using. You could build on this one, adding items specific to your situation. www.n3fjp.com/help/contestchecklist.html

Band-Pass Filter Survey

Jim, K9YC, surveyed some of the band-pass filter products that are available for building SOxR or Multioperator stations, and he's published his results on his website. <http://k9yc.com/BandpassFilterSurvey.pdf>

Logging Software and Windows

Most contesters use logging software running on the Microsoft Windows operating systems. Sometimes completely legitimate versions of these or other Amateur Radio related software are flagged by anti-virus or anti-malware software as malicious. The worst time that this can happen is just before, or even during a contest! Program authors can lessen the chances of this occurring for their software by following some suggestions detailed in this article from Microsoft <https://cloudblogs.microsoft.com/microsoftsecure/2018/08/16/partnering-with-the-industry-to-minimize-false-positives/>. Although the details are particular to Windows Defender ATP, many other vendors use similar techniques.

Raspberry Pi computer in off-the-grid situations

Julian, OH8STN, has put together an article about how to use a Raspberry Pi computer in off-the-grid situations, including with a USB-connected GPS to derive accurate time for certain digital modes. There are a lot of other interesting pieces in this article that could be applied to solve various problems you might encounter when operating portable, contesting from a DX location, and so on. <http://oh8stn.org/blog/2018/08/13/x-days-off-grid-radio-raspberry-pi-prerequisites/>

Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 20 to 27 August 2018

Run for the Bacon QRP Contest

01:00 - 03:00 UTC 20 August

Geographic Focus: Worldwide

Participation: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Band; All Band

Max power: 5 watts

Exchange: RST, state, province or country and member no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent

Multipliers: Each state, province, or country once;

Multiply mults by 2 if >50 members worked

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 26 August 2018

E-mail logs to: (none)

Upload log at: <http://qrptest.com/pigrun/autolog.php>

Mail logs to: (none)

Find rules at: <http://qrptest.com/pigrun/>

SKCC Sprint

00:00 - 02:00 UTC 22 August

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (none)

Exchange: RST, state, province or country, name and SKCC no or power

Work stations: Once per band

QSO Points: (see rules)

Multipliers: Each state, province, or country once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 23:59 UTC 26 August 2018

E-mail log summary to: (none)

Post log summary at: www.skccgroup.com/operating_activities/weekday_sprint/submit-display.php

Mail logs to: (none)

Find rules at: www.skccgroup.com/operating_activities/weekday_sprint/

Phone Fray

02:30 - 03:00 UTC 22 August

Geographic Focus: North America

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 03:00 UTC 24 August 2018

E-mail logs to: (none)

Post log summary at: www.3830scores.com

Mail logs to: (none)

Find rules at: www.perluma.com/Phone_Fray_Con-test_Rules.pdf

CWops Mini-CWT Test

13:00 - 14:00 UTC and 19:00 - 20:00 UTC 22 August and 03:00 - 04:00 UTC 23 August

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or highMax power:

HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: Member: Name and member no; non-Member: Name and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each call once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 04:00 UTC 25 August 2018

Post log summary at: www.3830scores.com

Mail logs to: (none)

Find rules at: www.cwops.org/cwt.html

QRP Fox Hunt

01:00 - 02:30 UTC 24 August

Geographic Focus: United States

Participation: Worldwide

Mode: CW

Bands: 20 m Only

Classes: Single Op - for or hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 02:30 UTC 25 August 2018
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at: www.grpfoxhunt.org/summer_rules.htm

NCCC RTTY Sprint
01:45 - 02:15 UTC 24 August
Geographic Focus: North America
Participation: Worldwide
Mode: RTTY
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 26 August 2018
E-mail logs to: (none)
Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: www.ncccsprint.com/rттyns.html

NCCC Sprint Ladder
02:30 - 03:00 UTC 24 August
Geographic Focus: North America
Participation: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10, 6 m
Classes: Single Op
Max power: 100 watts
Exchange: Serial no, name and QTH
Work stations: Once per band
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 26 August 2018
E-mail logs to: (none)
Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: <http://ncccsprint.com/ladder.html>

Hawaii QSO Party
04:00 UTC 25 August to 04:00 UTC 27 August
Geographic Focus: United States/Canada state/province QSO party
Participation: Worldwide
Mode: CW, Phone, Digital
Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high; Multi-Single - low or high; Multi-Multi - low or high
Max power: HP: 1 500 watts; LP: 100 watts; QRP: 5 watts
Exchange: HI: RS(T) and QTH; non-HI W/VE: RS(T) and state or province; DX: RS(T)
Work stations: Once per band per mode
QSO Points: 2 points per SSB QSO; 3 points per CW/digital QSO
Multipliers: HI: Each HI QTH once; HI: Each state/province/territory/country once; non-HI: Each HI QTH once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 30 September 2018
E-mail logs to: (none)
Upload log at: <http://ha-waiisoparty.org/LogUploads/Upload.html>
Mail logs to: (none)
Find rules at: www.ha-waiisoparty.org/Rules/HQP/HQPRules-2018-A.html

ALARA Contest
06:00 UTC Aug 25 to 05:59 UTC 26 August
Geographic Focus: Australia/New Zealand
Participation: Worldwide
Mode: CW, Phone
Bands: 80, 40, 20, 15, 10 m
Classes: Single Op
Exchange: ALARA: RS(T)A and name; non-ALARA: RS(T), serial no, name and whether YL, OM or club station
Work stations: Once per 60 minutes per band per mode
QSO Points: 5 points per phone QSO with ALARA member; 4 points per phone QSO with YL non-member; 3 points per phone QSO with OM; Double points per QSO for CW
Multipliers: Each VK/ZL call area once per band; Each YL DXCC country once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 30 September 2018
E-mail logs to: alaracontest@wia.org.au
Mail logs to: Mrs. Marilyn Syme VK5DMS, 14/142 Marian Rd., Glynde SA 5070, Australia
Find rules at: www.alara.org.au/contests/

YO DX HF Contest
12:00 UTC 25 August to 12:00 UTC 26 August
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW, SSB
Bands: 80, 40, 20, 15, 10 m

Classes: Single Op All Band – CW, SSB or mixed – high or low; Single Op Single Band; Multi-Op Single Transmitter; Youngster/Novice (<16 y)
Max power: High: >100 W; Low: 100 W or less
Exchange: YO: RS(T) and county; non-YO: RS(T) and serial no

Work stations: Once per band per mode
QSO Points: 8 points per QSO with YO station; 4 points per QSO with non-YO station on different continent; 2 points per QSO with non-YO station in different country, same continent; 1 point per QSO with non-YO station in same country
Multipliers: Each DXCC country (not YO) once per band; Each YO county once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 25 September 2018
E-mail logs to: logs@yodx.ro
Mail logs to: (none)
Find rules at: www.yodx.ro/en/english

SCC RTTY Championship
12:00 UTC 25 August to 11:59 UTC 26 August
Geographic Focus: Worldwide
Participation: Worldwide
Mode: RTTY
Bands: 80, 40, 20, 15, 10 m
Classes: Single Op All Band - low or high; Single Op Single Band; Multi-Op
Max power: HP: 1 500 watts; LP: 100 watts
Exchange: RST and 4-digit year license first issued
QSO Points: 1 point per QSO with same country; 2 points per QSO with same continent, different country; 2 points per QSO between different W, VE, VK, ZL, ZS, JA and PY call areas, LU provinces and Asiatic Russia UA9/UA0 oblasts; 3 points per QSO with different continent
Multipliers: Each 4-digit year licensed once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 11:59 UTC 28 August 2018
E-mail logs to: (none)
Upload log at: http://lea.hamradio.si/scc/rtty/rtty_log_submission.htm
Mail logs to: (none)
Find rules at: <http://lea.hamradio.si/scc/rtty/rttyrules.htm>

W/VE Islands QSO Party
12:00 UTC 25 August to 03:00 UTC 26 August
Geographic Focus: United States/Canada
Participation: Worldwide
Mode: CW, Phone, Digital
Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: W/VE Island Fixed - QRP or QRO; W/VE Island Expedition - QRP or QRO; W/VE Island Rover - QRP or QRO; Non-Island - QRP or QRO
Max power: QRO: >5 W; QRP: 5 W
Exchange: Islands: RS(T) and USI/CISA Island Designation; Non-Islands: RS(T) and state, province or country

Work stations: Once per mode per band
QSO Points: 5 points per QSO with W/VE island; 2 points per CW/Digital QSO with non-island; 1 point per phone QSO with non-island
Multipliers: (see rules)
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 15 September 2018
E-mail logs to: ns4j@usislands.org
Mail logs to: (none)
Find rules at: <http://usislands.org/qso-party-rules/>

Kansas QSO Party
14:00 UTC 25 August to 02:00 UTC 26 August and 14:00 - 20:00 UTC 26 August
Geographic Focus: United States/Canada state/province QSO party
Participation: Worldwide
Mode: CW, SSB, Digital
Bands: 80, 40, 20, 15, 10, 6 m
Classes: Single Op - QRP, low or high; Multi-Op; School; Mobile Single Op (CW/Mixed) Low Power; Mobile Multi-Op Single Radio Low Power; Mobile Unlimited; Mobile Unassisted Low Power; Mobile SSB Low Power; Portable; FT8
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts
Exchange: KS: RS(T) and county; non-KS: RS(T) and state, VE section or DX
Work stations: Once per band per mode
QSO Points: 2 points per phone QSO; 3 points per CW/digital QSO; Bonus: 100 points for at least one QSO with KS0KS
Multipliers: KS: Each US state, VE section and "DX" once; non-KS: Each KS county once
Score Calculation: Total score = (total QSO points x total mults) and Bonus Points
Submit logs by: October 1, 2018
E-mail logs to: logs@ksqsoparty.org
Mail logs to: Kansas QSO Party, c/o Bob Harder, W0BH, Box 3000, Hesston, KS 67062, USA
Find rules at: <http://ksqsoparty.org/rules/KSQPRules2018.pdf>

Ohio QSO Party
16:00 UTC 25 August to 04:00 UTC 26 August
Geographic Focus: United States/Canada state/province QSO party
Participation: Worldwide
Mode: CW, SSB

Bands: 80, 40, 20, 15, 10 m
 Classes: Single Op - QRP, low or high; Multi-Op;
 EOC; Mobile; Rover
 Max power: HP: >100 watts; LP: 100 watts; QRP: 5
 watts
 Exchange: OH: RS(T) and county; non-OH: RS(T) and
 state, province or DX
 Work stations: Once per band per mode
 QSO Points: 1 point per SSB QSO; 2 points per CW
 QSO
 Multipliers: OH Stations: Each state, province, OH
 county, 1 DX once per mode; non-OH Stations: Each
 OH county once per mode
 Score Calculation: Total score = total QSO points x
 total mults (see rules for mobile stations)
 Submit logs by: 24 September 2018
 Upload log at: [http://www.ohqp.org/in-
 dex.php/submit-log/](http://www.ohqp.org/in-dex.php/submit-log/)
 Mail logs to: Ohio QSO Party, c/o Jim Stahl, K8MR,
 30499 Jackson Rd., Chagrin Falls, OH 44022-1730,
 USA
 Find rules at: [http://www.ohqp.org/in-
 dex.php/rules/](http://www.ohqp.org/in-dex.php/rules/)

CVA DX SSB Contest
 21:00 UTC 25 August to 21:00 UTC 26 August
 Geographic Focus: Worldwide
 Participation: Worldwide
 Mode: SSB
 Bands: 80, 40, 20, 15, 10 m
 Classes: Single Op - QRP, low or high; Single Op Sin-
 gle Band - low or high; Multi-Single - low or high;

Multi-Two; Headquarters; Teen Single Op; YL Single
 Op
 Max power: HP: >100 watts; LP: 100 watts; QRP: 5
 watts
 Exchange: RS and type/UF(see rules)
 Work stations: Once per band
 QSO Points: (see rules)
 Multipliers: Each UF once per band
 Each country once only
 Score Calculation: Total score = total QSO points x
 total mults
 Submit logs by: 15 September 2018
 E-mail logs to: ssb@craec.org
 Mail logs to: (none)
 Find rules at: [http://glaubervi-
 ana2009.wixsite.com/cva3-dx-html/regulamento](http://glaubervi-ana2009.wixsite.com/cva3-dx-html/regulamento)

SARL HF CW Contest
 14:00 - 17:00 UTC 26 August
 Geographic Focus: Southern Africa
 Participation: Southern Africa
 Mode: CW
 Bands: 80, 40, 20 m
 Classes: Single Op All Band; Single Op Single Band;
 Multi-Op All Band; Multi-Op Single Band
 Exchange: RST and serial no
 Score Calculation: (see rules)
 Submit logs by: 3 September 2018
 E-mail logs to: zs4bfn@mweb.co.za
 Mail logs to: (none)
 Find rules at: [http://www.sarl.org.za/Web3/Mem-
 bers/DoDocDown-
 load.aspx?X=201712180812348XdiUz5yFy.PDF](http://www.sarl.org.za/Web3/Members/DoDocDownload.aspx?X=201712180812348XdiUz5yFy.PDF)

Next Week's Contests

Phone Fray 02:30 - 03:00 UTC 29 August
 CWops Mini-CWT Test 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 29 August and 03:00 - 04:00 UTC 30 August
 QRP Fox Hunt 01:00 - 02:30 UTC 31 August
 NCCC RTTY Sprint 01:45 - 02:15 UTC 31 August
 NCCC Sprint Ladder 02:30 - 03:00 UTC 31 August
 G3ZQS Memorial Straight Key Contest 23:00 UTC 31 August to 23:00 UTC 2 September
 All Asian DX Contest, Phone 00:00 UTC 1 September to 24:00 UTC 2 September
 Russian RTTY WW Contest 00:00 - 23:59 UTC 1 September
 CWops CW Open 00:00 - 03:59 UTC and 12:00 - 15:59 UTC and 20:00 - 23:59 UTC 1 September
 Wake-Up! QRP Sprint 06:00 - 06:29 UTC and 06:30 - 06:59 UTC and 07:00 - 07:29 UTC and 07:30 - 08:00 UTC 1
 September
 Colorado QSO Party 13:00 UTC 1 September to 04:00 UTC 2 September
 IARU Region 1 Field Day, SSB 13:00 UTC 1 September to 12:59 UTC 2 September
 RSGB SSB Field Day 13:00 UTC 1 September to 13:00 UTC 2 September
 AGCW Straight Key Party 13:00 - 16:00 UTC 1 September
 Alabama QSO Party 15:00 UTC 1 September to 03:00 UTC 2 September
 PODXS 070 Club Jay Hudak Memorial 80 m Sprint 20:00 UTC 1 September to 20:00 UTC 2 September
 Tennessee QSO Party 18:00 UTC 2 September to 03:00 UTC 3 September
 MI QRP Labour Day CW Sprint 23:00 UTC 3 September to 03:00 UTC 4 September
 ARS Spartan Sprint 01:00 - 03:00 UTC 4 September

HAARP's WSPR Research Campaign Yields Hundreds of Reports on 40 and 80 Meters

Just-completed research at the High-Frequency Active Auroral Research Program (HAARP www.gi.alaska.edu/haarp) transmitters in Gakona, Alaska, successfully took advantage of the WSPR digital protocol and the Weak Signal Propagation Reporter Network (WSPRnet) on 30 July 30 to 1 August. University of Alaska Fairbanks (UAF) Space Physics Group researcher and HAARP Chief Scientist Chris Fallen, KL3WX, told ARRL that the research, HAARP's fourth research campaign under management of the University of Alaska Fairbanks, went well.

"My 'citizen science' experiments were funded by the National Science Foundation and were conducted for approximately 30 minutes at the end of each campaign day," Fallen said. "They consisted of 2-minute transmissions using the WSPR digital mode in the 40- and 80-meter bands, with a 2-minute off period between transmissions." He said HAARP transmitted in full-carrier, double-sideband AM because it does not have SSB capability. HAARP operated under its Part 5 Experimental license, WI2XFX, with Special Temporary Authority (STA) from the FCC to transmit on amateur bands.

"I systematically varied the HAARP transmission parameters, such as gain, net power, beam direction, and polarization, to see how they affected the reception reports collected in the WSPRnet.org database," Fallen said. "During the 3 days, we gathered more than 300 confirmed reports of signal strength and location from nearly 100 unique participants throughout Canada and the US."

Fallen said the spots, collected along with the corresponding HAARP transmission parameters, are available online, <https://goo.gl/u6ZvrQ> and <https://goo.gl/kMr2CH>. He said the spreadsheet at the second link is editable by the public, "specifically by citizen scientists who want to manually add their spot or other interesting data analysis," he added. "In this sense, the experiment continues."

He said that HAARP's low-elevation transmissions on 40 meters resulted in the greatest number of spots. "The most distant spot was located at grid EL96XI, near Boca Raton, Florida, reported by W1NEJ, from a distance of 6 154 kilometres," Fallen said. "Interestingly, HAARP was aimed in the magnetic west direction during that spot."

HAARP and the Arecibo Observatory in Puerto Rico are planning to conduct heating campaigns this autumn (Northern Hemisphere), Fallen noted, although not at the same time, as experimenters are shared.

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter

